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--14. A device for processing a hydrous polymer gel, comprising two rolls which are approximately parallel to and aside each other and rotating in opposite direction having between them a nip for the passage of the polymer gel, wherein one roll is formed as a cutting roll which is provided with at least one axially extending cross-cutting element having a cutting edge and with a radially extending longitudinal cutting element provided with a cutting edge running around it, and wherein the other roll is formed as a back-up roll and further wherein the width of the nip is variable.

15. The device of Claim 14, wherein the nip has a width which approximates the height of the at least one axially extending cross-cutting element or radially extending longitudinal cutting element or both.

16. The device of Claim 14, wherein the longitudinal cutting element has a circumferential rate which is higher than the conveying rate of the polymer gel.

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17. The device of Claim 14, wherein the at least one axially extending cross-cutting element is formed of a flat steel polished on one side.

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18. The device of Claim 14, wherein the cross-section of the at least one axially extending cross-cutting element is planed or has the form of a sickle.

C Subs
19. The device of Claim 14, wherein the at least one axially extending cross-cutting element is arranged in parallel or spindle-shaped to the longitudinal axis of the cutting roll or cross-cutting roll.

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20. The device of Claim 14, wherein the back-up roll conveys the polymer gel and presses it against the at least one axially extending cross-cutting element or radially extending longitudinal cutting element or both during cutting.

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21. The device of Claim 14, wherein the back-up roll is coated with a plastic material.